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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23439

7590

03/18/2004

DENTSPLY INTERNATIONAL INC 570 WEST COLLEGE AVENUE YORK, PA 17404 EXAMINER

KIKNADZE, IRAKLI

ART UNIT PAPER NUMBER

DATE MAILED: 03/18/2004

2882

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,663	01/04/2001	Gerardo Rinaldi	GEN-802	2701

TITLE OF INVENTION: AUTOMATIC X-RAY DETECTION FOR INTRA-ORAL DENTAL X-RAY IMAGING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000		
INSTRUCTIONS: This for appropriate. All further con indicated unless corrected b maintenance fee notification	m should be used for tran espondence including the l elow or directed otherwise s.	smitting the ISSUI Patent, advance ord in Block 1, by (a)	E FEE and PUBLI ders and notification specifying a new	CATION FEE (if red of maintenance fees correspondence addres	quired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sepa	hould be completed when correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus		
23439 75	90 03/18/2004			have its own certific	ate of mailing or transmission.	ent or formal drawing, mus
DENTSPLY INTERNATIONAL INC 570 WEST COLLEGE AVENUE YORK, PA 17404				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimilar transmitted to the USPTO, on the date indicated below.		
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	F	FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,663	01/04/2001		Gerardo Rinald	i	GEN-802	2701
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nonprovisional	NO	\$1330		\$300	\$1630	06/18/2004
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KIKNADZI	E, IRAKLI	2882		378-098800		
Address form PTO/SB/12  "Fee Address" indicatic PTO/SB/47; Rev 03-02 o Number is required.  3. ASSIGNEE NAME AND	on (or "Fee Address" Indicater more recent) attached. Use RESIDENCE DATA TO Be an assignee is identified beld to the USPTO or is being s	ion form of a Customer E PRINTED ON Tow, no assignee da	agents OR, alten firm (having as agent) and the n attorneys or agen will be printed.  HE PATENT (print ata will appear on the arate cover. Comple	•• /	e of a single d attorney or sistered patent ted, no name assignee data is only appropri OT a substitute for filing an ass	ate when an assignment ha ignment.
Please check the appropriate  4a. The following fee(s) are comparison. Issue Fee  Publication Fee	enclosed:	4b.	Payment of Fee(s):  A check in the ar  Payment by credi	nount of the fee(s) is e	38 is attached.	
Advance Order - # of 0	Copies		The Director is Deposit Account N	hereby authorized by umber	charge the required fee(s), or (enclose an extra c	credit any overpayment, to copy of this form).
Director for Patents is reques	ted to apply the Issue Fee an	nd Publication Fee	(if any) or to re-appl	y any previously paid	l issue fee to the application ide	entified above.
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This collection of informat obtain or retain a benefit tapplication. Confidentiality estimated to take 12 minut completed application form case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner of the control of t	ion is required by 37 CFR by the public which is to fi se governed by 35 U.S.C. I set to complete, including grate to the USPTO. Time will the amount of time you have burden, should be sent office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Virginal of the public of Patents, Alexandria, Virginal or patents or pa	1.311. The inform le (and by the USI 22 and 37 CFR 1.1. thering, preparing, I vary depending vequire to complet to the Chief Inform of Commerce, AI TED FORMS TO ginia 22313-1450.	nation is required to PTO to process) and 4. This collection is and submitting the upon the individual e this form and/or nation Officer, U.S. lexandria, Virginia THIS ADDRESS.			

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YORK, PA 1		VENOE		ART UNIT	PAPER NUMBER				
,				2882					
			DATE MAILED: 03/18/200	4					

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 153 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 153 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)
	09/754,663	RINALDI ET AL.
Notice of Allowability	Examiner	Art Unit
	Irakli Kiknadze	2882
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet was (OR REMAINS) CLOSED in the commodification is selected. This application is	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>02/23/2004</u> .		
2. X The allowed claim(s) is/are 1-12.		
3. $igstyle igstyle igstyle$ The drawings filed on <u>04 January 2001</u> are accepted by t	he Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a linternational Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	ve been received. ve been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subs INFORMAL PATENT APPLICATION (PTO-152) which given</li> </ol>		
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) ☐ including changes required by the Notice of Draftspe  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examine Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in  7. ☐ DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT	rson's Patent Drawing Revie  r's Amendment / Comment o 1.84(c)) should be written on t the header according to 37 Cl osit of BIOLOGICAL MAT	r in the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview S Paper No. /08), 7. ⊠ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date <u>03022004</u> . S Amendment/Comment Statement of Reasons for Allowance
· · · · · · · · · · · · · · · · · · ·		Craig E. Church Primary Examiner

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#### **DETAILED ACTION**

1. In response to the Office action of October 23, 2003 the Amendment has been received on February 17, 2004.

Claims 1, 3 and 5 have been amended.

Claims 1-12 are currently pending in this application.

# **EXAMINER'S AMENDMENT**

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with Douglas J. Hura (Reg. No. 33249) on March 2, 2004.
- 4. The application has been amended as follows:
  In claim 1, on line 30, delete " a method for ".
  In claims 2-12, on line 1, delete " and method ".

## Allowable Subject Matter

5. Claims 1-12 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Claims 1-12 are allowed because prior art fails to teach or make obvious in X-ray imaging systems for digital radiography, an apparatus for the automatic detection of the start of irradiation comprising a control unit, controlling the operating modes of an X-ray imager and providing: IBM (Initial Blemishes Mapping); SRC (Standby Readout Cycle); XDU (X-ray Detection Unit); TSU (Temperature Simulation Unit); processing the output of the SRC function by the TSU function, in order to provide a simulated value of a device temperature and a correction of a first Threshold Reference (TH1); and processing the output of the SRC function by the XDU function as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schick et al. (US Patent 6,134,298), Greenway et al. (US Patent 6,149,300) and Doebert et al. (US Patent 6,169,781 B1) disclose the intraoral dental imaging systems.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irakli Kiknadze whose telephone number is 571-272-2493. The examiner can normally be reached on 9:00- 5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on 571-272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Irakli kiknadze March 2, 2004

TK

Craig E. Church
Primary Examiner